

IN THE CLAIMS:

1. (Currently Amended) An implant comprising:

electrically-conductive closed loops forming an apertured wall of the implant with an interior volume, each of said loops being formed from loop portions providing electrically-conductive current pathways within which eddy currents are liable to be induced when subjected to a time-dependent external magnetic field, each of said loops ~~consists of~~ including a first current pathway and a second current pathway wherein said first current pathway and said second current pathway are arranged such that, regardless of the direction of said external magnetic field, the direction of the eddy current that would be induced by said field in said second current pathway is the reverse of the direction of the eddy current that would simultaneously be induced by said field in said first current pathway, thereby to prevent flow of eddy currents in each of said loops.

2. (Original) The implant according to claim 1, wherein each of said loops has loop portions formed as a first lobe and as a second lobe of a figure of eight, and further compromises a cross-over point between said first lobe and said second lobe.

3. (Original) The implant according to claim 2, further compromising an electrically-insulating joint between said two loop portions at said cross-over point.

4. (Currently Amended) The implant according to ~~claim 2 or 3~~ claim 2, wherein each of said loops has additional lobes and additional cross-over points between said additional lobes, with the areas bounded by the lobes being such that, in aggregate, the area bounded by one set of lobes equals the area bounded by a cancelling remainder of the lobes.

5. (Currently Amended) The implant according to claim 1, ~~any one of the preceding claims~~, wherein the implant has a central longitudinal axis and said interior volume is tubular and centred on said axis.

6. (Currently Amended) The implant according to ~~claim 1 or 5~~ claim 1, wherein each of said loops wraps around said axis in the form of a spiral with an integral whole number of turns.

7. (Currently Amended) The ~~Implant~~ implant as claimed in claim 6, the integral whole number of turns being at least three.

8. (Currently Amended) The implant according to ~~claim 6 or 7~~ claim 6, wherein each of said loops that wraps around the axis lies within an envelope that is transverse to the axis.

9. (Currently Amended) The implant according to ~~claim 6, 7 or 8~~ claim 6, wherein each of said loops wraps around the axis in a path that spirals around the axis from one end of the implant to the other.

10. (Currently Amended) The implant according to ~~any one of claims 6 to 9~~ claim 6, wherein the pitch of said spiral path is constant.

11. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, wherein loop portions correspond to struts that are joined end-to-end to each other and can deploy in use to form a zig-zag pattern.

12. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, with the plurality of loops arranged mutually axially adjacent, and spaced along the axis.

13. (Original) The implant according to claim 12, wherein adjacent loops are connected to each other by electrically-insulating links.

14. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, wherein each of said loops includes a plurality of electrically-insulating links that connect spaced loop portions of said loop.

15. (Currently Amended) The implant according to ~~claim 13 or 14~~ claim 13, wherein each link is a mechanical coupling with a first cooperating link portion and a second cooperating link portion.

16. (Original) The implant according to claim 15, wherein the cooperating portions can move relative to each other.

17. (Original) The implant according to claim 16, wherein the cooperating portions are constituted as a hook portion and an eye to receive the hook portion.

18. (Currently Amended) The implant according to ~~any one of claims 15, 16 and 17~~ claim 15, ~~and~~ including a layer of bonding material between the cooperating link portions.

19. (Original) The implant according to claim 18, wherein the bonding material is ceramic.

20. (Original) The implant according to claim 18, wherein the bonding material is an adhesive composition.

21. (Currently Amended) The implant according to ~~any one of claims 15 to 20~~ claim 15, wherein the mechanical coupling comprises interlocking fingers.

22. (Currently Amended) The implant according to ~~any one of claims 15 to 21~~ claim 15, wherein the mechanical coupling comprises mechanically-engaging surfaces in combination with at least one restraining strap overlying the engaging surfaces.

23. (Currently Amended) The implant according to ~~any one of claims 13 to 22~~ claim 13, wherein each link includes a molded connector piece.

24. (Currently Amended) The implant according to ~~any one of claims 13 to 23~~ claim 13, wherein each link includes a portion that is locally thinned with respect to the thickness of the wall of the implant.

25. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, in which the wall of the implant is an apertured tube.

26. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, wherein the implant is made of nickel-titanium shape memory alloy.

27. (Currently Amended) The implant according to ~~any one of claims 1 to 25~~ claim 1, wherein the implant is made of stainless steel.

28. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, wherein the implant is a stent.

29. (Original) The implant according to claim 28, wherein the stent is radially expandible from a radially compact delivery configuration to a radially larger deployed configuration, and the stent is capable of being delivered transluminally by a catheter.

30. (Currently Amended) The implant according to ~~any one of claims 1 to 27~~ claim 1, wherein the implant is a filter.

31. (Currently Amended) The implant according to ~~any one of claims 1 to 27~~ claim 1, wherein the implant is a valve.

32. (Currently Amended) The implant according to ~~any one of claims 1 to 29~~ claim 1, wherein the implant is a graft.

33. (Currently Amended) The implant according to ~~any one of the preceding claims~~ claim 1, wherein the implant is a self-expanding implant delivered transluminally in a radially

compact configuration and capable of self-expansion into a radially larger deployed configuration at an implant site.

34. (Currently Amended) The implant according to ~~any one of claims 1 to 3~~ claim 1, wherein each closed loop exhibits lobes, with an equal lobe area on opposite sides of the interior volume.

35. (Currently Amended) An implant tube comprising:
an electrical conductor, said electrical conductor having a plurality of closed loops electrically insulated from each other, each of said closed loops having a periphery of a string of equal area lobes that are within said closed loop, and every one of said lobes ~~has~~ having a counterpart lobe located diametrically opposite on the implant tube.

36. (Original) The implant tube according to claim 35, wherein each of said loop having an even number of lobes.